

PATENT ABSTRACTS OF JAPAN

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(21)Application number : **10-016022** (71)Applicant : **AT & T CORP**

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(54) MULTIPLE DESCRIPTION ENCODING COMMUNICATION SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To improve coding efficiency and to exhibit sufficient performance with respect to distortion by including a process of converting two samples to two coefficients with substantially equal energy and a process for entropy coding.

SOLUTION: Samples A and B enters a pair generating converter 21 and samples C and D are outputted from there. At the converter 21, the samples A and B are inputted to a standard multiplier to be multiplied by a value retained in a storage retaining part. Pair generating conversion outputs C and D are quantized through the use of the same quantizing step size by quantizers 22 and 23 after then the generate samples quantized C and quantized D. The samples quantized C and quantized D are separately entropy-coded through the use of standard entropy coders 24 and 25. The entropy-coded samples quantized C are sent on a channel 1 and the entropy-coded samples quantized D are sent on a channel 2.

